

WAGNER, HEINDEL, and NOYES, Inc.

· Consulting Hydrogeologists

Engineers

· Environmental Scientists

P.O. Box 1629 Burlington, Vermont 05402-1629

802-658-0820

FAX: 802-860-1014

August 6, 1993

Ms. Lynda Wedderspoon, Site Manager Sites Management Section Hazardous Materials Management Division 103 South Main Street Waterbury, VT 05671-0404

RE:

Bryan Resident (Site #92-1345)

Williston, Vermont

Dear Ms. Wedderspoon:

Enclosed is our site assessment report providing preliminary assessment of the degree and extend of the contamination from a gasoline UST and piping system at the Bryan residence.

We look forward to your review comments and recommendations for this site. Please call with any questions.

Sincerely,

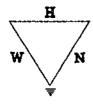
Dean A. Grover, P.E. Environmental Engineer

DAG/ral

Enclosure

cc: Alden Bryan

[L-WEDDERSPOON/DAG 6-27-93]



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BRYAN RESIDENCE

LEAKING UNDERGROUND STORAGE TANK SITE INVESTIGATION

Prepared by:

Dean A. Grover, P.E. Environmental Engineer

Reviewed and Approved by:

Craig D. Heindel Senior Hydrogeologist

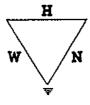
July 6, 1993

BRYAN RESIDENCE

LEAKING UNDERGROUND STORAGE TANK SITE INVESTIGATION

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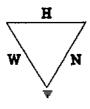
802-658-0820 FAX: 802-860-1014

BRYAN RESIDENCE

LEAKING UNDERGROUND STORAGE TANK SITE INVESTIGATION

EXECUTIVE SUMMARY

- 1) Elevated photoionizable detectable (PID) levels of hydrocarbons in soils adjacent to and beneath a 500-gallon gasoline UST, removed in December 1992, prompted further site investigation. Stains in soils and on the tank suggested leakage from pipe fittings on a 1" galvanized steel pipe leading from this tank to the delivery pump. No visible holes were noted in the tank.
- 2) One upgradient and three downgradient monitoring wells installed on the site revealed uniform fine sands, with a water table about 7 9 feet below ground surface. No free product was visible in any of the wells.
- 3) Groundwater samples from developed and purged wells revealed low levels of dissolved petroleum hydrocarbons, suggesting a dissolved phased petroleum plume centered approximately beneath a large barn on the property.
- 4) No elevated PID levels were observed in basements or seeps on the parcel. There are no domestic wells actively in use as drinking water sources within 2000 feet of the LUST.
- 5) Excavation and soil-pile treatment of contaminated soils near the leaky underground storage tank (LUST) site is recommended. One additional groundwater and seep sampling round is recommended. Installation of one well further upgradient of the LUST site, on Williston Country Club Golf Course property, may be warranted.



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FAX:

BRYAN RESIDENCE

LEAKING UNDERGROUND STORAGE TANK SITE INVESTIGATION

1.0 OVERVIEW

Site owner:

Mr. Alden Bryan

68 North Williston Road Williston, Vermont 05495 Telephone: 878-5566

Tank owner/operator:

Mr. Alden Bryan

Company performing site

investigation and report:

Wagner, Heindel, and Noyes

P.O. Box 1629

Burlington, Vermont 05402-1629

Telephone: 658-0820

Rationale for site investigation:

This site investigation is being performed in response to a documented release of gasoline from a suction line attached to a 500-gallon underground storage tank at the Bryan residence.

State notification made:

Three underground storage tanks were removed from the ground at the Bryan residence on December 8, 1992. Notification was made to the UST Program on the same day of tank removal, regarding the release of petroleum products to subsurface soils.

Local authorities notified:

Within approximately 1-2 days of discovery of the pipe leak, the Town Clerk's Office was notified of this release. The notification was made at the same time that information was gathered regarding potential receptors in the vicinity of the tank.

2.0 SETTING AND LAYOUT

The Bryan residence consists of a house and large barn on a 2.5 acre parcel of land located at 68 North Williston Road in Williston, Vermont. The home is located on the east side of North Williston Road, approximately 1,500 feet north of Route 2. The site is located on a portion of the Essex Junction USGS topographic sheet (Attachment 1, page 1).

A 1"=40" site map has been prepared (Attachment 1, page 2), showing the former locations of underground storage tanks (USTs) and locations of the monitoring wells, the Bryan house, and barn, paved and gravel driveways, fences, streams, and culverts. The Bryan residence property is bounded to the north, east, and south by the Williston Country Club golf course. North Williston Road passes along the west side of the property. The Jessman, Glidden, and Lissner residence is located directly across North Williston Road from the Bryan residence.

Two above-ground storage tanks were observed on the Williston Country Club property, including an approximately 1,000-gallon gasoline tank and 500-gallon diesel tank. These tanks are located on the site map.

The 500-gallon, single-walled, steel gasoline tank and diesel tank were located just east of the eastern end of the house/garage. A photograph of the location of these tanks (taken before their removal) shows a small shed attached to the southeast corner of the garage which originally housed the fuel pumps used to dispense fuel from these tanks (Attachment, page 5). Note that a vent pipe is visible in the photograph, just to the right of the shed.

Product suction lines were attached to the top of each tank and extended from the tanks to the pump shed (a distance of only 10-15 feet for the gasoline tank, and 25-30 feet for the diesel tank). These approximately one-inch diameter galvanized pipes were provided with threaded elbows and unions. It appeared from the stains noted on the gasoline tank and on adjacent soils, that a leak developed in either the first elbow or the union of the product line for this tank (see photographs, Attachment, page 5).

A local area map is provided with this report, showing the presence of surface water features (Attachment, page 1). In general, the site is relatively flat-lying, and drainage features are poorly developed. Soils consist of littoral sands and gravels, with high infiltrative capacities.

The moderately densely populated residential area surrounding the study site is served with domestic water and fire flows by the Champlain Water District. Some wells are, however, still active on the Williston Country Club golf course, as further detailed in Section 5.0 of this report.

3.0 SITE HISTORY

Three underground storage tanks were located on the Bryan property prior to their removal on December 8, 1992:

- a 1,000-gallon No. 2 fuel oil tank installed in the 1920s or 1930s;
- a 500-gallon diesel tank installed in the mid-1970s; and
- a 500-gallon gasoline tank, also installed in the mid-1970s.

No evidence of leakage from the tank or associated piping was detected for the 1,000-gallon fuel oil tank and the 500-gallon diesel tank when removed in December 1992.

The gasoline and diesel tanks were installed by Agway and Robinson Fuels, Essex Junction, roughly 1971 - 1974, and were used strictly for fueling of the Bryan's personal vehicles. The Bryans stopped using the gasoline tank in 1978, and the diesel tank in

1982. Subsequent to that date, the tanks remained in the ground, but were free of all but a few gallons of fuel (whatever fuel could not be pumped with the product pumps).

During removal of the gasoline and diesel tanks, both tanks were found to be in good condition, with only minor rust. No heavy rust pitting or holes were observed in either tank. However, as described earlier in this report, product loss from the suction line from the gasoline tank appeared to have occurred from around an elbow or union.

Photoionizable detectable (PID: Photovac Microtip equipped with 10.6 eV probe) levels of volatile organic hydrocarbons were 200-300 in soils adjacent to the gasoline tank wall, increasing to 400 in soils excavated about 1 foot below the bottom of this tank. All contaminated soils were returned to the original tank excavation. These observations are documented on a tank pull form, submitted to the VANR the same day that the tanks were removed (Attachment, pages 7-8).

Although it is not possible to determine exactly how much gasoline was lost, it is likely that only a few tens of gallons were released from the pipe fitting. The suction line from the gasoline tank contained product only during active pumping of fuel from the tank into a motor vehicle. The tank was only used between 1971 and approximately 1978 and was only used to fuel 2 - 3 personal use vehicles. Fuel was likely pumped from the tank no more than once a week. If only a few ounces of fuel were lost during each pumping incident, then the total loss of fuel should not be very high. (Obviously, the amount of fuel lost during each operation of the gasoline pump is the greatest unknown in this discussion.)

If we estimate that two ounces of fuel were lost during each pumping cycle and that the gasoline tank was used 2.5 times, on average, per week for 7 years, then about 1800 ounces, or about 15 gallons of fuel may have been lost.

There is no history of previous release of petroleum products or other hazardous materials at the property.

4.0 SAMPLING AND SCREENING OF SOILS AND GROUNDWATER FOR PETROLEUM HYDROCARBONS

Visible soil staining and elevated PIDs were noted during the tank pull (see tank pull form). To further investigate the extent and degree of contamination, four monitoring wells were installed at the site on February 15, 1993. The wells were installed by Adams Engineering, using 4-inch solid augers. Soils information, including PID levels, were observed from soils retrieved along the auger flights after pulling the augers from the ground without spinning. Therefore, the depths below ground surface noted in the driller's logs and soil logs should be considered approximate (\pm 0.25 feet). Driller's boring logs and soil logs are attached (Attachment, pages 9-10).

Monitoring well locations were selected to provide one upgradient and three downgradient wells. The presumed groundwater flow direction was toward the southwest when the well locations were selected. The ultimate receiving water for any contamination migrating off the Bryan property was assumed to be Allen Brook, which flows from east to west to the south of the property. There were no surface indications of release of petroleum products (soil stains, vegetation affects, or seeps showing sheens or odors).

Two-inch diameter, flush-threaded PVC wells with 10-foot factory-slotted 0.010 inch screens were installed in the four-inch holes just after removal of the solid augers. Typically, the hole collapsed to just above the water table, and the wells were installed by slowly pushing the PVC pipe to the bottom of the augered hole. Pool filter sand was applied to the annular space between the well and borehole until within approximately 1½ feet of the ground surface, whereupon a bentonite seal was installed to the ground surface.

Soils encountered from the ground surface to a maximum depth of 15 feet below ground surface were uniform fine sands with occasional thin silt lenses (<1/2" thick) in all bore holes. There was no evidence of an aquiclude that would suggest the presence of a shallow confined aquifer beneath the site. No basal till or bedrock was encountered in any borehole. A 1.5 to 2.0 foot stickup was provided for each well.

In the spring, after the frost had left the ground, all wells were cut flush to the ground surface, and eight-inch diameter curb boxes were installed. This work was conducted on May 8, 1993.

A water table map was constructed, after measuring depths to groundwater in each well on June 16, 1993 (map: Attachment, page 4). The contour map shows a groundwater flow direction in the shallow unconfined aquifer toward the west-southwest, with a gradient of 0.014 feet per foot.

On the same day as well installation, we used a peristaltic pump to slowly extract groundwater from each well, purging until all silt and fine sand was removed. All wells developed without difficulty, and yielded clear water after approximately 30 minutes of pumping.

On February 23, 1993, all wells were checked for floating free product with a decontaminated clear teflon bailer, and were then evacuated of at least three well volumes before obtaining groundwater samples. Although slight petroleum odors were noted in all wells, no free product or sheens were noted in any wells. Samples obtained for EPA Method 8240 analysis of volatile organic compounds were collected in 40 ml VOA vials and preserved with sodium azide and ice. Samples collected for total hydrocarbon analyses (EPA Method 418.1) were preserved by refrigeration with ice.

Laboratory reports and chains-of-custody are provided for both the volatile organic analyses and total hydrocarbon analyses (Attachment, pages 11-21). Analytical results have been plotted on two base maps of the site to show the distribution of to BTEX constituents and total hydrocarbons (Attachment, pages 2-3).

The highest level of total BTEX compounds was found in monitor well MW-2 in the front yard of the Bryan residence, at 1,237 parts per billion (ppb). The only detectable level of total hydrocarbons found in all four wells (EPA Method 418.1) was observed at a level of 5.9 parts per million (ppm) in MW-2.

The distribution of contamination at the site is somewhat puzzling. We expected to see the highest levels of contamination in monitor well MW-4, located just downgradient of the 500-gallon gasoline tank. Alternatively, the highest levels are observed in MW-2 on the front lawn of the Bryan residence, 120 feet west of the leaking underground storage tank location. In fact, the levels observed in MW-4 are only slightly higher than the "background" levels measured in MW-1. We postulate, from the limited subsurface data, that the low-level dissolved BTEX plume released from the tank flowed southwest with groundwater over time. After pumping of fuel from the tank ceased in 1978, no gasoline was released from the suction piping, and the contaminant source was "turned off". This plume "pulse" then migrated downgradient, and is now likely centered beneath the large barn on the site. Relatively high levels in MW-2 are likely a measurement of the northwest portion of this southwest-flowing plume under this scenario. The lack of any significant contamination in MW-3 shows that the plume has not yet reached this downgradient point, and has essentially not left the property.

5.0 INITIAL RISK EVALUATION

To assess potential and actual impacts to releases from the leaky underground storage tank (LUST), we analyzed for measurable PID levels of contamination in surface water seeps, in nearby basements, and domestic water wells within a 1,000-foot radius of the LUST (field data: Attachment, pages 22-25).

PID measurements of VOCs released from the seepage face located to the south of the barn showed no detectable volatile organic compounds in these seeps.

Field analysis of airborne levels of VOCs along the basement wall of the large barn located 70 feet south of the LUST showed no elevated levels of volatile organic compounds. We also screened for volatile organic compounds in the basement of the house, and found no levels elevated above background conditions (slightly elevated levels were observed within 1-inch of a small fuel oil stain on the concrete floor beside on an oil-fired boiler).

A domestic well sensitive receptor survey was performed within a 1,000-foot radius of the LUST. The survey was initialized by collecting and plotting all well logs available from the Water Supply Section of the Agency of Natural Resources (index of logs and copies of

logs: Attachment, pages 26-36). A follow-up door-to-door survey was performed to check the accuracy of the well logs, and to interview homeowners about their current source of domestic drinking water. The only homes not visited within the 1,000-foot radius are those new homes in the development along Lefebvre Lane, 600 feet southeast of the Bryan home, which all receive water from the Champlain Water District. All wells are located on a USGS blow-up (Attachment, page 37). Results of the door-to-door survey are also provided (Attachment, pages 38-41).

Although many old homes exist along North Williston Road and have dug or drilled wells, we learned that all residents along the road use the Champlain Water District municipal water supply as a domestic drinking water source.

The only wells in active use as a water source are located on the Williston Country Club golf course. These wells are located on a USGS topographic map (Attachment, page 1). Three wells are located on the Williston Country Club golf course. One well, (labelled #1 on the map) installed in the early 1960s was drilled to a total depth of approximately 300 feet and has a driller's estimated yield of 25-30 gallons per minute (gpm). This well supplies water to the Country Club and a few private homeowners nearby. A second well, (labelled #2 on the map) drilled in 1988 to a depth of 490 feet, provides an estimated yield of 25 gpm. This well is used strictly as a source of irrigation water for the golf course. A third well (well #3)

was originally installed at the residence of Ben Murray, and is now located on the golf course. This well, installed in the early 1960s (a year or two after the Clubhouse well was drilled), yields 10-15 gpm and has a total depth of approximately 300 feet. Following are distances and compass direction to each of these wells from the LUST site:

WELL ID#	DISTANCE (ft)	DIRECTION
1	2,200	Southeast
2	2,100	East
3	3,400	Southeast

The three wells located on the golf course are considered cross-gradient or upgradient to the LUST, and are sufficiently distant from the LUST so that short-term or long-term threats are not significant.

6.0 CONCLUSIONS AND RECOMMENDATIONS

Preliminary analysis of the degree and extent of contamination has been accomplished by PID evaluation of soils within the tank excavation, seeps, and air in nearby basements, and by laboratory analysis of groundwater samples obtained from four monitoring wells. These results indicate the presence of petroleum hydrocarbons in the subsurface soils at the Bryan residence. Levels of 200-400 were observed with a Photovac Microtip in soils directly beneath the LUST. However, laboratory analysis of groundwater samples shows only very low levels of petroleum hydrocarbons in this medium.

The highest levels of dissolved petroleum products (total BTEX and total hydrocarbons) were observed in monitor well MW-2, located 130 feet in a roughly downgradient direction from the LUST. This finding suggests that the centroid of the low-level dissolved hydrocarbon plume has migrated downgradient. The centroid of the plume is likely beneath the large barn on this site. The fact that no significant levels of hydrocarbons are observed in MW-3 (no levels above those observed in our trip blank) implies that the plume has not reached this point on the site.

The small, intermittent brook that flows from a seepage face near the southeast corner of the parcel is the likely surface water receptor for any migrating hydrocarbons. It appears, from the relative elevation of the groundwater contours to the elevation of this creek bed, that the brook is losing water over most of its course, but is obviously gaining water at the seepage face. No PID detectable hydrocarbons were observed in this seepage face.

Installation of additional wells along the south side of the barn, and possibly between the barn and the house, would better define the geometry and magnitude of the plume. However, we feel that the existing "sparse" monitoring well network sufficiently indicates that the levels of dissolved hydrocarbons in the aquifer are very low and appear not to

extend beyond the Bryan property. Moreover, our sensitive receptor survey shows no indications of volatile organic compounds in basements of the barn or the house, or the small brook along the south side of the property.

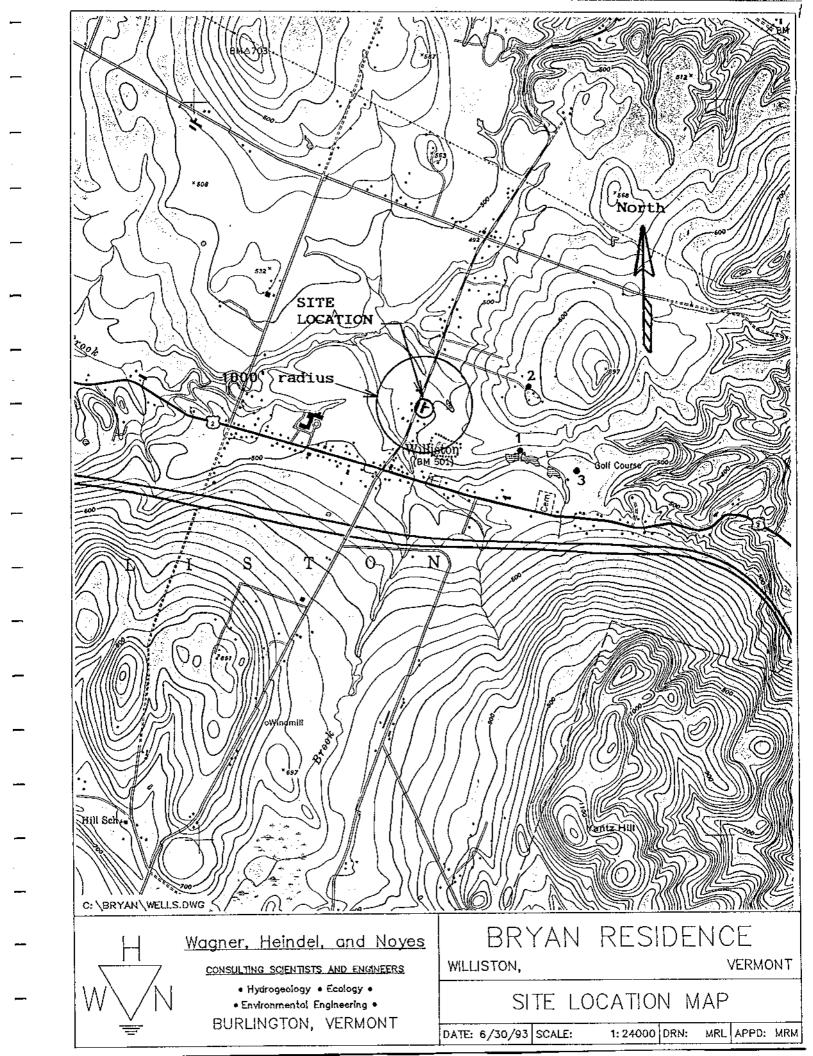
There are no domestic wells in use along North Williston Road, as all old wells at these homes have been replaced by Champlain Water District connections. The closest bedrock well in use for domestic water is on the Williston Country Club golf course at a distance of 2,100 feet in an easterly (cross-gradient) direction from the LUST. We feel that there is no significant threat to this domestic water source (and other more distant wells at the Country Club) from the low levels of petroleum products released by the LUST at the Bryan site.

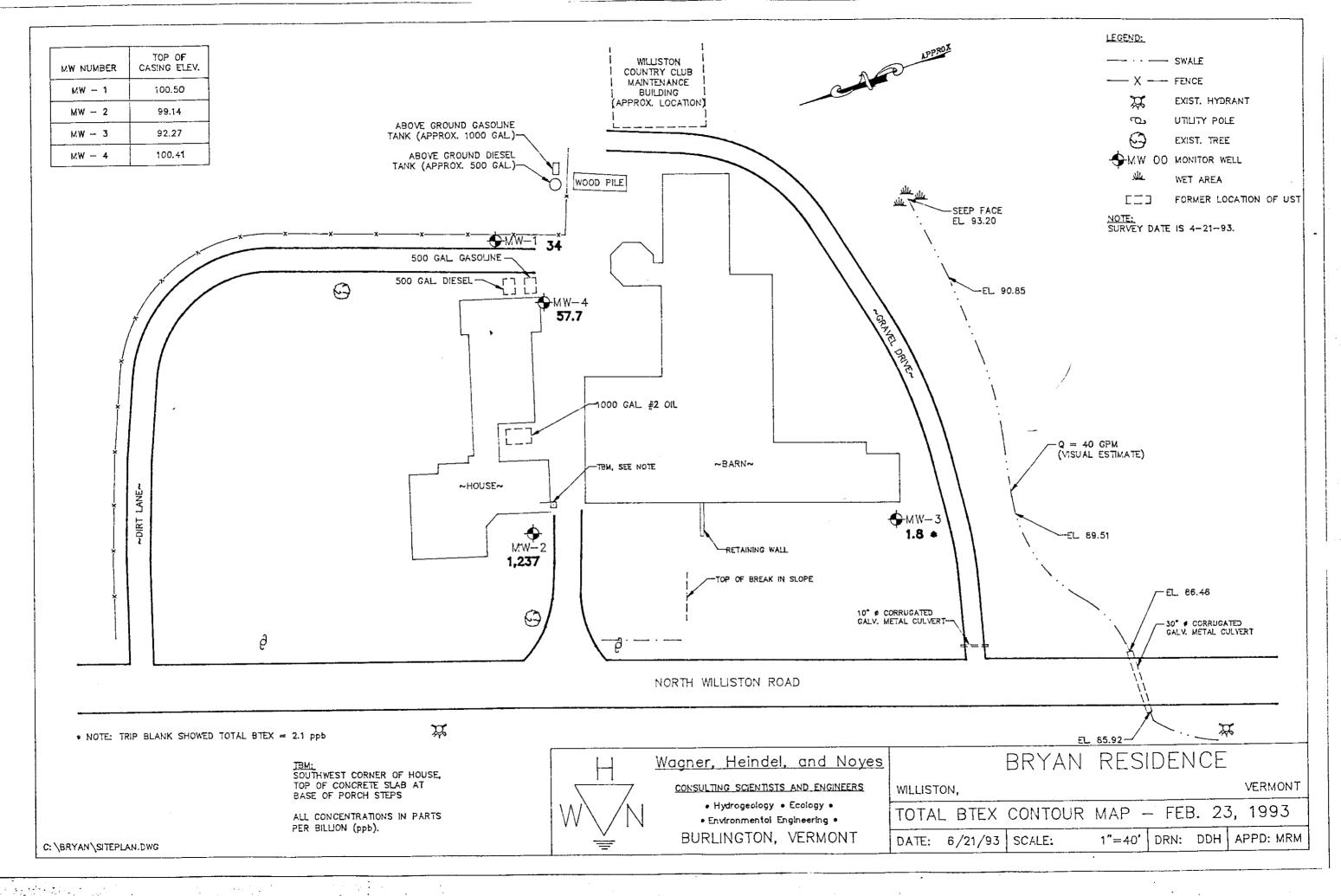
We recommend that the following remedial activities and monitoring activities occur at this site:

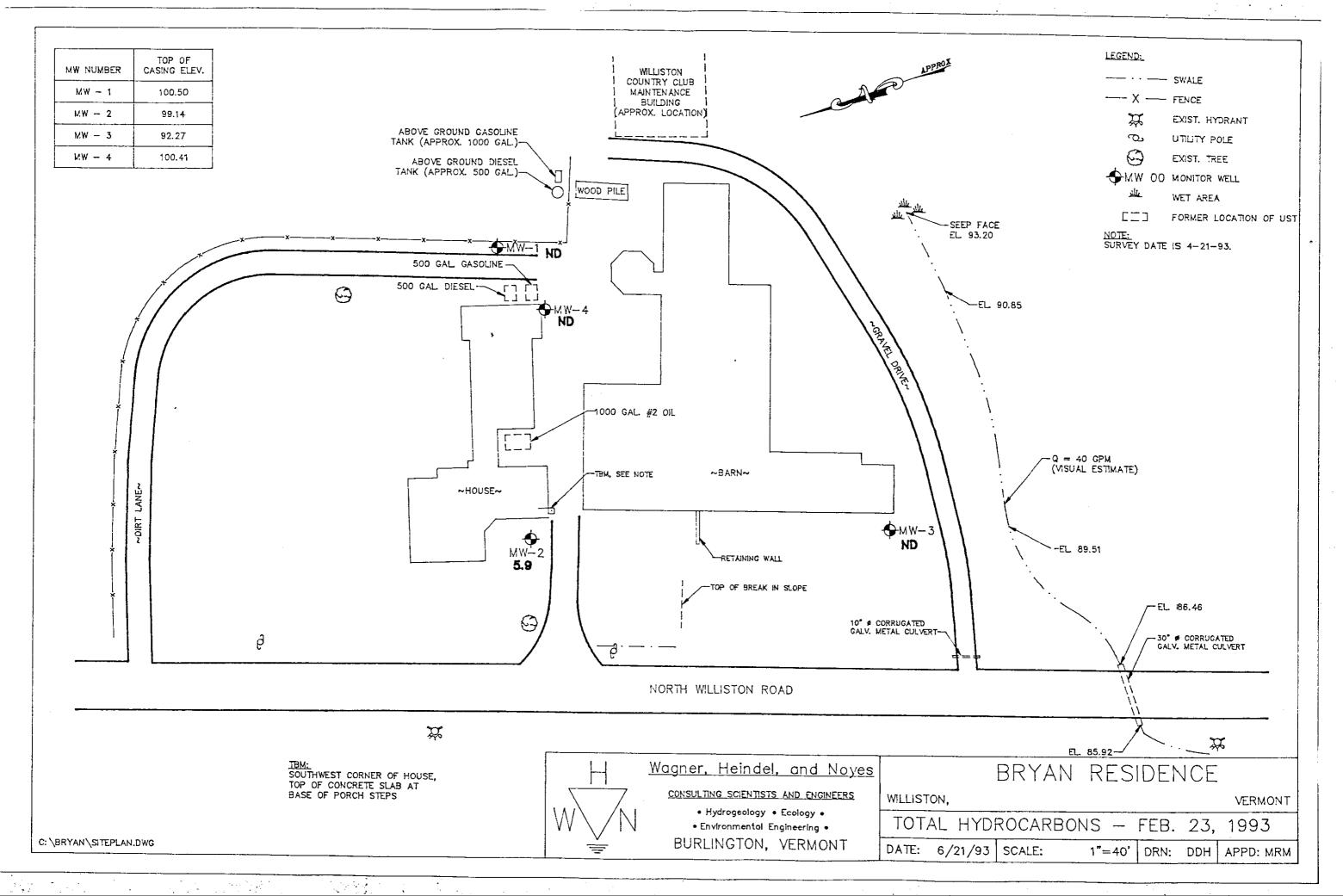
- Soils contaminated by gasoline in the vicinity of the removed LUST should be excavated from the ground and remediated using biological degradation and vapor extraction techniques in a double-lined and covered soil pile. By covering the pile and treating all vapor extraction system effluent gases with granular activated carbon, we can insure that the contamination removed from this soil is not simply transferred to the atmosphere. The double liner beneath the soil treatment pile will insure that contamination does not migrate into the subsurface. We recommend that this work be done during the summer of 1993.
- We recommend one additional round of sampling of all four monitoring wells at the site, and of the seep near the southeast corner of the property. Each sample should be analyzed for EPA Method 8020 analytes (petroleum hydrocarbons only), since we have determined that chlorinated solvents are not present on the property.
- 3. It may be prudent to install one additional well upgradient of monitor well MW-1, since this "background" well does contain low residuals of petroleum hydrocarbons. It is not clear at this writing whether these hydrocarbons are derived from the 500-gallon gasoline tank, or from upgradient sources on the Williston Country Club

golf course. Underground storage tanks are believed to have been in use at the Country Club in the past, and may have released the very low levels of petroleum products that were detected in MW-1.

[RPT-8RYAN/DAG 6-3-93]





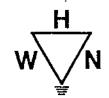


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VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION UNDERGROUND STORAGE TANK PROGRAM 103 SOUTH MAIN STREET WATERBURY, VERMONT 05671-0404 (802) 244-8702

070 1993
Date of Removal: 8 DEC 1992 Date of Assessment: 8 DEC 1992
Person & Company Doing Assessment: DEAN GROVER WASHER, HEINDER & NOVES
658-0820
Business Name Where Tank(s) Located: RESIDENCE OF ALDEN BRYAN Number of Employees: O
Street Address & Town/City: 68 No. WILLISTON RD.
Owner of Tank(s): SAME WILLISTON, VT 05495
Address: Contact Person: D. GROVER
Town/City: Phone Number: 658-0520
UST Facility ID Number: N/A
Tank # Product Size Condition
1 No. 2 FUEL OIL 1000 GOOD
2 GASOWNE 500 GOOD - LINE LEAK
3 DIESEC FUEL 500 4 GOOD
Reason for Tank Removal (check one): Abandoned Croutine replacement
tank or piping leaking' liability
Replacement Tank(s)? yes Ino Number of Replacement Tanks: O
DEC UST Permit(s) Obtained?
DEC-Permitted Tank(s) Still On-Site? yes no Number of Tanks:
Out of Service Tank(s) On-Site?
Heating Oil Tank(s) On-Site? yes no No. of Tanks: 2 Size(s): 175GAL
Any Waste Pumpage? Wyes on Estimated Volume: 18 GAL, FLEL OIL, 20 GAL DIESEL, Transported By: JIM S KIPPEE 32 GAL GASOLINE
CAROLINE TANK ONLY:
Size of Excavation (ft ²): 75 Depth: 5FT Soil Type: FINE SAND Concentrations Detected with PID: Peak = 450 Average = 200
Type of PID: PHOTOVAC MICROTIP
Number of Readings (please put locations on attached drawing): /O Calibration Info. (date, time, type of gas): 8 Dec 92, 16 PAR : ISOBOTYCENE
Free Phase Product Encountered? yes no Approx. Amount:
Cont. Soils Stockpiled?
Cont. Soils Backfilled? Yes no Amount (yd3): 21
Groundwater Encountered? Tyes on Depth to Groundwater: 2 /2 FT
Monitoring Wells Installed? yes In no Number: Screen Depth:
On-Site Drinking Well?
Public Water Supply Well(s) Within % Mile? yes no Distance to nearest:
Private Water Supply Well(s) Within & Mile? yes no How Many? 1 (?)
Samples Collected for Laboratory Analysis? yes no How Many?
[check all that apply: soil groundwater drinking water]
Receptors Affected (check all that apply):
Boil residential; # of houses/people:
groundwater surface water; name/type of water body:
(NOT DETERMINED)
Signature of Owner or Authorized Representative:
Signature of Person Performing Site Assessment:
Date: 8 06c 92
*** ATTACH OBSERVATIONS, CONCLUSIONS, AND DRAWING ON A SEPARATE PAGE ***
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Wagner, Heindel, and Noyes, Inc.

Consulting Geologists

Burlington, Vermont

PAGE OF Page No.

PROJECT: BRYAN THIK PULL

DATE: 8 DEC 1992

BRYAN TANK PULC , WILLISTAN, UT.
OBSERVATIONS & CONCUUSIONS
NO LEAKS OR ELEMATED PID'S NOTED IN THIKS,
PIPES & SUPROMOCING SOILS FOR 1000 GALLON NO. 2 FLEC
OIL AND 500 GALON DIESEC TANK.
LEAKY SUCTION PIPE HAS CAUSED CONTAMINATION IN
ang ang akang <u>akan kang ang akang ang ang ang ang ang ang ang ang ang </u>
IMMEDIATE VICINITY OF 500 GALLON CASOLINE TANK.
PID REMOINGS (MICROTIP) WERE 200-300 IN Soles
ADJACENT TO TANK WALL, INCREASING TO 900 IN
SOLLS ONE FOOT BELOW BOTTOM OF TANK. WATER TABLE
WAS NOT FUCOUNTERED, BUT BELIEVED TO BE 10-12 FEET
BGS, FINE SANDY SOILS WERE NOTHD TO 6FT BGS.
CLOSEST KNOWN DONESTIC WELL 13 AT THE WILLISTON
COUNTRY CWB, ABOUT 14 MILE UPGRADIENT (NORTHEAST).
THE WELLHEAD FOR THIS BEDROCK WELL - 15 ABOUT VERTICA
FEET ABOVE THE LUST.
Jen O Crown
DEAN A. GROVER, P.E.

ADAMS ENGINEERING
Gerard Adams
RD #1, Box #3700
Underhill, Vt. 05489
899-4945 FAX 899-4376

February 15, 1993

Mr. Dean Grover PE Heindel & noyes.

The following are the boring logs for the Aldan Bryan/Williston project conducted under your direction: Soils information from solid auger cuttings.

2/15/93 MW #1 Next to split rail fence.

SOILS WELL

0>-51

+1.5' Top of well 2" PVC Pyramid, typ. Light brown medium & fine sand.

-.5' Top of grout.

-2.5' Bottom of grout top of sand pack, placed in open borehole. Holes typically collapse at just above water table.

-3.5' Top of well screen 2 X 10' X .010" slot Pyramid WHN, typ. -5>9.9' 3 X 60" Split spoon, saturated brown fine sand trace silt.

-9.9>15' Saturated brown fine sand trace silt.

-13.4' Bottom of screen.

Developed with peristaltic pump with silicone pump & Vinal suction ho clean good flow, all wells.

— MW #2 In front of house.

+2+-' Top of well.

0>-5' Light brown fine sand.

-.5' Top of grout.

-3.2' Bottom of grout top of sand pack.

-4.2' Top of well screen 10'.

-5>15' Saturated brown fin sand.

-14.1' Bottom of screen.

MW #3 Font south west corner of barn.

+2' Top of well.

0>-6' Black organic loam.

-.5' Top of grout.

-2.0' Bottom of grout top of sand pack.

-3.0' Top of well screen 10'.

-6>12+-' Saturated brown fine sand.

-12>15' Saturated gray fine sand.

-12.9' Bottom of screen.

- MW #4 South east corner of garage. Not logged from memory??

+2+-' Top of well.

0>-2' Rubble fill.

-.5' Top of grout.

-2' Bottom of grout top of sand pack.

-2>5' Well oxidized medium sand over brown fine sand.

-3' Top of well screen 10'.

-5>10' Saturated brown fine sand trace silt.

-13' Bottom of screen.

— Gerard Adams

& wadans

SOIL BORING LOG Bryan Residence Williston, Vermont

June 23, 1993

These soil boring logs were prepared by Dean A. Grover, P.E. of Wagner, Heindel, and Noyes, Inc. during installation of monitoring wells by Adams Engineering on February 15, 1993. A Photovac Microtip equipped with a 10.6 eV probe was used to screen soils for petroleum hydrocarbons.

All wells were installed using 4-inch solid augers; soils were identified after examination on auger flights.

For information on well construction, see drillers' logs.

2 of Market of the Country of the Co			
MW-1 (background well at eastern property boundary)			
5.0 - 7.2'	Medium brown interbedded fine sands and silts in approximately 1 - 1½" beds; moist		
7.2 - 8.3'	Medium to dark brown medium sand; well sorted; saturated		
	7.0 - 7.5' PID = 500 to 550 (maximum reading) PID of freshly augered hole = 39.6		
MW-2 (loca	ation - front lawn of Bryan Residence)		
0 - 5'	Bright orange and tan fine sand and silt; dry to slightly moist		
5 - 15'	Dark brown silt at fine sand. Water table at approximately 9'.		
	6 - 7' PID = 0.8 (maximum reading) 14' PID = 212 (maximum reading)		
MW-3 (loca	ation - near southwest corner of barn)		
0 - 5'	Black and grey organic silt with medium sand; moist		
5 - 15'	Black organic rich muck; saturated; light grey fine sand horizon at 12' (0.5' thick)		
	10 - 15' PID = 6.5 (maximum reading)		
MW-4 (location - just downgradient of LUST)			
0 - 5'	Light tan very fine sand and silt; dry PID = 5		
5 - 15'	Medium to dark brown fine sand and silt; wet PID = 83 (maximum reading)		

[SBL-BRYAN/DAG 6-3-93]



32 James Brown Drive Williston, Vermont 05495 (802) 879-4333 FAX 879-7103

REPORT OF LABORATORY ANALYSIS

CLIENT: Wagner, Heindel, and Noyes, Inc.

PROJECT NAME: Bryan Tank Pull REPORT DATE: March 10, 1993

DATE SAMPLED: February 23, 1993

PROJECT CODE: HNTP1302

REF.#: 42,601 - 42,606

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody.

Chain of custody indicated samples were preserved with sodium azide.

All samples were prepared and analyzed by requirements outlined in the referenced method and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced method.

Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

Reviewed by,

Harry B. Locker, Ph.D. Laboratory Director

enclosures



32 James Brown Drive Williston, Vermont 05495 (802) 879-4333 FAX 879-7103

LABORATORY REPORT

EPA METHOD 8020 -- PURGEABLE AROMATICS

CLIENT: Wagner, Heindel, and Noyes, Inc.

PROJECT NAME: Bryan Tank Pull REPORT DATE: March 10, 1993 DATE SAMPLED: February 23, 1993 DATE RECEIVED: February 23, 1993 ANALYSIS DATE: March 8, 1993 PROJECT CODE: HNTP1302

REF.#: 42,603 STATION: MW 1

TIME SAMPLED: 2:10 SAMPLER: C. Aldrich

<u>Parameter</u>	Detection Limit (ug/L)	Concentration (ug/L)
		•
Benzene	1	ND_1
Chlorobenzene	1	ND
1,2-Dichlorobenzene	1	ND
1,3-Dichlorobenzene	1	ND
1,4-Dichlorobenzene	1	ND
Ethylbenzene	1	ND
Toluene	1	9.5
Xylenes	1	24.9
MTBE	1	ND

Bromobenzene Surrogate Recovery: 84%

NUMBER OF UNIDENTIFIED PEAKS FOUND: 22

NOTES:



32 James Brown Drive Williston, Vermont 05495 (802) 879-4333 FAX 879-7103

LABORATORY REPORT

EPA METHOD 8020 -- PURGEABLE AROMATICS

CLIENT: Wagner, Heindel, and Noyes, Inc.

PROJECT NAME: Bryan Tank Pull REPORT DATE: March 10, 1993 DATE SAMPLED: February 23, 1993 DATE RECEIVED: February 23, 1993 ANALYSIS DATE: March 10, 1993 PROJECT CODE: HNTP1302

REF.#: 42,604 STATION: MW 2

TIME SAMPLED: 1:30 SAMPLER: C. Aldrich

<u>Parameter</u>	Detection Limit (ug/L)1	Concentration (ug/L)
Domeono	\$. 20.0
Benzene	5	30.0
Chlorobenzene	5	ND^2
1,2-Dichlorobenzene	5	ND
1,3-Dichlorobenzene	5	ND
1,4-Dichlorobenzene	5	ND
Ethylbenzene	5	ND
Toluene	5	6.7
Xylenes	5	1,230.
MTBE	5	38.5

Bromobenzene Surrogate Recovery: 91%

NUMBER OF UNIDENTIFIED PEAKS FOUND: >25

NOTES:

- 1 Detection limit raised due to high levels of contaminants. Sample run at 20% dilution.
- 2 None detected



32 James Brown Drive Williston, Vermont 05495 (802) 879-4333 FAX 879-7103

LABORATORY REPORT

EPA METHOD 8020 -- PURGEABLE AROMATICS

CLIENT: Wagner, Heindel, and Noyes, Inc. PROJECT NAME: Bryan Tank Pull

REPORT DATE: March 10, 1993 DATE SAMPLED: February 23, 1993 DATE RECEIVED: February 23, 1993

ANALYSIS DATE: March 8, 1993

PROJECT CODE: HNTP1302

REF.#: 42,605 STATION: MW 3 TIME SAMPLED: 1:15

SAMPLER: C. Aldrich

<u>Parameter</u>	Detection Limit (ug/L)	Concentration (ug/L)	
		•	
Benzene	1	ND_1	
Chlorobenzene	1	ND	
1,2-Dichlorobenzene	1	ND	
1,3-Dichlorobenzene	1	ND	
1,4-Dichlorobenzene	1	ND	
Ethylbenzene	1	ND	
Toluene	1	ND	
Xylenes	1	1.8	
MTBE	1	ND	

Bromobenzene Surrogate Recovery: 97%

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:



32 James Brown Drive Williston, Vermont 05495 (802) 879-4333 FAX 879-7103

LABORATORY REPORT

EPA METHOD 8020 -- PURGEABLE AROMATICS

CLIENT: Wagner, Heindel, and Noyes, Inc. PROJECT NAME: Bryan Tank Pull REPORT DATE: March 10, 1993
DATE SAMPLED: February 23, 1993
DATE RECEIVED: February 23, 1993
ANALYSIS DATE: March 8, 1993

PROJECT CODE: HNTP1302

REF.#: 42,606 STATION: MW 4 TIME SAMPLED: 1:50 SAMPLER: C. Aldrich

<u>Parameter</u>	Detection Limit (ug/L)	Concentration (ug/L)
Domeses		, AIDI
Benzene	1	ND^{t}
Chlorobenzene	1	ND
1,2-Dichlorobenzene	1	ND
1,3-Dichlorobenzene	1	ND
1,4-Dichlorobenzene	1	ND
Ethylbenzene	1	ND
Toluene	1	36.5
Xylenes	1	21.2
MTBE	1	ND

Bromobenzene Surrogate Recovery: 86%

NUMBER OF UNIDENTIFIED PEAKS FOUND: >25

NOTES:



32 James Brown Drive Williston, Vermont 05495 (802) 879-4333 FAX 879-7103

LABORATORY REPORT

EPA METHOD 8020 -- PURGEABLE AROMATICS

CLIENT: Wagner, Heindel, and Noyes, Inc. PROJECT NAME: Bryan Tank Pull REPORT DATE: March 10, 1993
DATE SAMPLED: February 23, 1993
DATE RECEIVED: February 23, 1993
ANALYSIS DATE: March 8, 1993

REF.#: 42,602

PROJECT CODE: HNTP1302

STATION: Field Blank TIME SAMPLED: 2:00 SAMPLER: C. Aldrich

<u>Parameter</u>	Detection Limit (ug/L)	Concentration (ug/L)
Benzene	1	NDi
	1	
Chlorobenzene	1	ND
1,2-Dichlorobenzene	1	ND
1,3-Dichlorobenzene	1	ND
1,4-Dichlorobenzene	1	ND
Ethylbenzene	1	ND
Toluene	1	ND
Xylenes	1	ND
MTBE	1	ND

Bromobenzene Surrogate Recovery: 92%

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:



32 James Brown Drive Williston, Vermont 05495 (802) 879-4333 FAX 879-7103

LABORATORY REPORT

EPA METHOD 8020 -- PURGEABLE AROMATICS

CLIENT: Wagner, Heindel, and Noyes, Inc.

PROJECT NAME: Bryan Tank Pull REPORT DATE: March 10, 1993 DATE SAMPLED: February 23, 1993 DATE RECEIVED: February 23, 1993 ANALYSIS DATE: March 10, 1993 PROJECT CODE: HNTP1302

REF.#: 42,601

STATION: Trip Blank TIME SAMPLED: 12:00 SAMPLER: C. Aldrich

<u>Parameter</u>	Detection Limit (ug/L)	Concentration (ug/L)
Benzene	1	ND¹
Chlorobenzene	1	ND
1,2-Dichlorobenzene	1	ND
1,3-Dichlorobenzene	1	ND
1,4-Dichlorobenzene	1	ND
Ethylbenzene	1	ND
Toluene	1	ND
Xylenes	1	2.1
MTBE	1	ND

Bromobenzene Surrogate Recovery: 84%

NUMBER OF UNIDENTIFIED PEAKS FOUND: 0

NOTES:



32 James Brown Drive Williston, Vermont 05495 (802) 879-4333 FAX 879-7103

EPA METHOD 8020 LABORATORY REPORT

MATRIX SPIKE AND DUPLICATE LABORATORY CONTROL DATA

CLIENT: Wagner, Heindel, and Noyes, Inc. PROJECT NAME: Bryan Tank Pull REPORT DATE: March 10, 1993
DATE SAMPLED: February 23, 1993
DATE RECEIVED: February 23, 1993

ANALYSIS DATE: March 10, 1993

PROJECT CODE: HNTP1302

REF.#: 42,601

STATION: Trip Blank TIME SAMPLED: 12:00 SAMPLER: C. Aldrich

<u>Parameter</u>	Sample(ug/L)	Spike(ug/L)	Dup1(ug/L)	Dup2(ug/L)	Avg % Rec
Benzene	0	10	10.2	13.0	116%
Toluene	0	10	11.2	13.5	123%
Ethylbenzene	0	10	11.3	13.3	123%
Xylenes	2.1	30	34.0	39.4	116%



32 James Brown Drive Williston, Vermont 05495 (802) 879-4333 FAX 879-7103

REPORT OF LABORATORY ANALYSIS

CLIENT: Wagner, Heindel and Noyes, Inc.

PROJECT NAME: Bryan Tank Pull DATE REPORTED: March 4, 1993

DATE SAMPLED: February 23, 1993

PROJECT CODE: HNTP1303

REF. #: 42,607 - 42,610

Enclosed please find the results of the analyses performed for the samples referenced on the attached chain of custody record.

Chain of custody did not indicate sample preservation.

-Juld for Horry Lordon

All samples were prepared and analyzed by requirements outlined in the referenced methods and within the specified holding times.

All instrumentation was calibrated with the appropriate frequency and verified by the requirements outlined in the referenced methods.

Blank contamination was not observed at levels affecting the analytical results.

Analytical method precision and accuracy was monitored by laboratory control standards which included matrix spike, duplicate and quality control analyses. These standards were determined to be within established laboratory method acceptance limits.

Reviewed by,

Harry Locker, Ph.D. Laboratory Director

enclosures



32 James Brown Drive Williston, Vermont 05495 (802) 879-4333 FAX 879-7103

LABORATORY REPORT

TOTAL HYDROCARBONS - EPA METHOD 418.1 (WATER)

CLIENT: Wagner, Heindel and Noyes, Inc.

REPORT DATE: March 4, 1993 PROJECT NAME: Bryan Tank Pull PROJECT CODE: HNTP1303

DATE SAMPLED: February 23, 1993 DATE RECEIVED: February 23, 1993 DATE ANALYZED: February 25, 1993

SAMPLER: Chris Aldrich

Reference #	Sample ID	Conc. (mg/L) ¹
42,607	MW 1; 2:10	ND^2
42,608	MW 2; 1:30	5.9
42,609	MW 3; 1:15	ND
42,610	MW 4; 1:50	ND

Notes:

- 1 Method detection limit is 0.8 ppm
- 2 None detected

32 James Brown Drive

CHAIN-OF-CUSTODY RECORD

006030

Williston, Vermont 05495 (802) 879-4333 Project Name: BRYAN TANK PUIL Billing Address: Reporting Address: Site Location: Williston, VT WHW WHN Company: WHN Sampler Name: Q, Aldrich Endyne Project Number: Contact Name/Phone #: D. Grover 658-0020 Phone #: 658-0820 C Sample Containers Analysis Sample Date/Time Field Results/Remarks Rush Sample Location Matrix Lab# Required Preservation M No. Type/Size H20 8020 Trip Blank field Blank MW 1 30 MWZ , 15 MW 3 ,50 40mL 8020 mw 4 210 liter 4181 MW_ MW 2 MW3 U O 4181 Histar mw4 Relinguished by Spating alldice Date/Time 2/23/93 Received by: Signature Relinguished by: Signature Received by: Signature Date/Time Requested Analyses

1	pH	6	TKN	11	Total Solids	16	Metals (Specify)	21	EPA 624	26	EPA 8270 B/N or Acid
2	Chloride	7	Total P	12	TSS	17	Coliform (Specify)	22	EPA 625 B/N or A	27	EPA 8010/8020
1 3	Ammonis N	8	Total Diss. P	13	TDS	18	COD	23	EPA 418.1	28	EPA 8080 Pest/PCB
4	Nitrite N	9	BOD,	14	Turbidity	- 19-	BTEX	24	EPA 608 Pest/PCB		
5	Nitrate N	10	Alkalinity	15	Conductivity	20	EPA 601/602	25	EPA 8240		
29 TCLP (Specify: volatiles, semi-volatiles, metals, pesticides, herbicides)											
30	30 Other (Specify):										

BRYAN Tank Pull-Microtip Survey 5-7-93 MILLER Sunny warm clean, 70°F Station Output Microty - Battery newly changed Wet spot consider 421 get spot on floor, middle ? - Too dank to read Mthp

<u></u>	BRYAN Tank Pull-Microtip Survey	5-7-93
	Event Output	MILLER
	* Oil Funaie · 1-2 ppm	
	Gw drain tile 241 0.9 ppm	7.30P
-	Gw dran tile 241 0.9 ppm	530P
	Paint section 242 0.8 ppm	
	Ambiert basement O. pom	
_		
	* oil furnic changed 3-4 who	سرمهده
 	Small amount of oil spilled	
La	Small amount of oil spilled	
	2 5 30 12	
-3		
b	Scre of 236-243 1.4 by oil funnie tanks	
	1.4 by orl funnie tanks	
-		
Ь		
_		
 3		

BRYAN RESIDENCE NO. WILLISTON ROAD WILLISTON, VT MAY 7, 1993

?

LOCATION #1: BARN, LOWER LEVEL (BOAT STORAGE AREA)

Photovac MicroTIP Statistical Monitoring Report Averaging Interval: 1 Readings?

15 Seconds?? Time Min Avg Max Event Status Notes May 07,93 16:12 0.0 0.0 0.0 226 Ready _____ 0.0 0.0 0.0 Ready 0.0 0.0 0.0 Ready 0.0 0.0 0.0 Ready 16:13 0.0 0.0 0.0 Ready 0.0 0.0 0.0 Ready 16:14 0.0 0.0 0.0 227 Ready 0.0 0.0 0.0 Ready 0.0. 0.0 Ready 0.0 Ready 0.0 0.0 0.0 16:15 0.0 0.0 0.0 Ready _____ 0.0 0.0 0.0 Ready 0.0 0.0 0.0 Ready 0.0 0.0 0.0 Ready Ready _____ 16:16 0.0 0.0 0.0 0.0 0.0 0.0 Ready _____ 16:17 0.0 0.0 0.0 228 Ready _____ 0.0 0.0 0.0 Ready 0.0 0.0 0.1 Ready _____ 0.0 0.1 Ready 0.0 16:18 0.0 0.0 0.0 Ready _____ 0.0 0.0 0.0 Ready ____ 0.0 0.0 0.1 Ready 0.0 229 Ready _____ 0.0 0.0 0.0 0.0 0.0 Ready 0.0 0.0 0.0 Ready 0.0 0.0 0.0 Ready _____ 16:19 0.0 0.0 0.0 Ready _____ 0.0 0.0 0.0 Ready Ready 0.0 0.0 0.0 Ready _____ 0.0 0.0 0.0 16:20 0.0 0.0 0.0 0.0 0.1 0.1 Ready Ready 0.0 0.1 0.1 16:21 0.1 0.1 0.1 230 Ready _____ 0.0 0.1 0.1 Ready _____ 0.1 Ready _____ 0.0 0.1 0.0 Ready 0.0 0.1

Ready

16:22 0.0 0.0 0.1

BRYAN RESIDENCE NO. WILLISTON ROAD WILLISTON, VT MAY 7, 1993

0.0 0.0 0.1	Ready
16:23 0.0 0.0 0.0	231 Ready
0.0 0.0 0.0	Ready
0.0 0.0 0.0	Ready
0.0 0.0 0.0	Ready
16:24 0.0 0.0 0.0	
0.0 0.0 0.0	Ready
0.0 0.0 0.0	Ready
0.0 0.0 0.0	Ready
16:25 0.0 0.0 0.0	Ready
0.0 0.0 0.0	Ready
0.0 0.0 0.0	Ready
0.0 0.0 0.0	Ready
	Ready
0.0 0.0 0.0	Ready
0.0 0.0 0.0	Ready
0.0 0.0 0.0	Ready
16:27 0.0 0.0 0.1	Ready
0.0 0.0 0.1	Ready
	33 Ready
0.0 0.0 0.0	Ready
0.0 0.0 0.0	Ready
0.0 0.0 0.0	Ready
16:28 0.0 0.0 0.0 0.0 0.0 0.0	Ready
0.0 0.0 0.0	Ready
0.0 0.0 0.0	Ready
16:29 0.0 0.0 0.0	-
0.0 0.0 0.0	Ready
0.0 0.0 0.0	Ready
0.0 0.0 0.0	Doody
16:30 0.0 0.0 0.0	Ready
0.0 0.0 0.0	Dande
0.0 0.0 0.0	Doods
0.0 0.0 0.0	Ready
	Ready
	35 Ready
	35 Ready Readv
0.0 0.0 0.0	Ready
	- -
0.0 0.0 0.0 0.0 0.0 0.0	Ready Ready Ready
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	Ready
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 16:32 0.0 0.0 0.0	ReadyReadyReady
0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 16:32 0.0 0.0 0.0 0.0 0.0 0.0	Ready Ready Ready Ready Ready Ready Ready Ready Ready

BRYAN RESIDENCE NO. WILLISTON ROAD WILLISTON, VT MAY 7, 1993

?

0.0	0.0	0.0	Ready	
0.0	0.0	0.1 .	Ready	
16:34 0.	0.0	0.0	236 Ready	
0.0	0.0	0.0	Ready	
0.0	0.0	0.0	Ready	
0.0	0.0	0.0	Ready	
16:35 0.	0.0	0.0	Ready	
0.0	0.0	0.0	Ready	
0.0	0.0	0.0	Ready	

LOCATION #2: BRYAN RESIDENCE, BASEMENT

17:25 0.0 0.0 0.0	237 Ready
0.0 0.0 0.0	Ready
0.0 0.0 0.0	Ready
0.0 0.5 0.9	Ready
17:26 0.9 1.3 1.5	Ready
1.0 1.2 1.4 23	8 Ready
0.7 0.9 1.0	Ready
17:27 0.6 0.6 0.7	240 Ready
0.5 0.6 0.6	Ready
0.5 0.5 0.5 24	1 Ready
0.4 0.4 0.5	Ready
0.4 0.8 1.0	Ready
0.8 0.9 1.0	Ready
17:28 0.8 1.0 1.1	242 Ready
1.1 1.3 1.3	Ready
0.9 1.0 1.2	Ready
0.6 0.8 0.9	Ready
17:29 0.6 0.9 1.0	Ready
0.7 1.0 1.3	Ready
0.7 0.8 0.8	Ready
0.7 0.8 0.8	Ready
17:30 0.5 0.6 0.7	Ready
0.5 0.6 0.6	Ready
0.6 0.8 1.1	Ready
17:31 0.6 0.8 1.0	243 Ready
	Ready
	Ready



Wagner, Heindel, and Noyes, Inc.

Consulting Geologists

Burlington, Vermont

PAGE ____ OF ____ Page No
PROJECT: ____ BRYAN ____

DATE: ____ 6-93

BRYAN RESIDENCE

SENSITIVE PECEPTOR SURVEY

INVENTURY OF DRIVER'S WELL COSS WITHIN 2/000

			DEATH TO	
ANR#	NAME	TOTAL DETTH	pock	YIELD COOL
12	GREEN MT. DEVEL.	(FT) 30	(FT) >36	(GAM) O
20	BEN MURRAY	395	?	12
86	MIKE MURRAY	172	52	/a
132	MARSHALL HUNT	350	50	10
155	NANCY MAYEN	746	9	1/16.
188	CHARLES CHRISTALINE	Jp. 300	65	TRACE
200	DAN PETHER BEIDGE	120	(GRAVEL)	150
205	MARCEL MONTAGNE	502	29	10
252	BEN MURRAY	502	220	5
301	JEFF DAVIS	600	78	. 2

WELL COMPLETION REPORT

(This report must be completed and submitted to
the Department of Water Resources, State Office
Building, Montpelier, Vermont 05602, no later than
90 dong often completion of well \

Do not fill in State Well No. 440 26'57"

30 days after completion of w		ian	Ĺ	Other No. Wa. 732031.50!
WELL OWNER Groom Mountain	Lon & Dov. Corp	1/2 Neboli	Mostin Enga 1025 A	sport a S. Burlington VI
WELL Layne-New En	ame gland Compan y , Arlington, Ma		Mailing	Address
PROPOSED USE OR USES (C	ame Check):		Mailing	Address
☐ Domestic ☐ Agr	icultural,	Business Establish	ment	al [] Industrial
Other (Specify use) Tex	<i>F</i>			
CASTING DETAILS (Inside)	YIELD T	EST	WATER LEVEL (From land surface) (if possible)	screen details
Pulled Feet	☐ Bailed or	Hours	Static: None Feet During Yield	Make: Nont
Diameter: 2%" Inches	Pumped or	GPM	Test: Feet DRILLING EQUIPMENT	Material:
	☐ Compressed A		☐ Cable Tool	Slot Size
Kind:	NOW	1 240	☐ Rotary	Length: Ft.
Weight: lbs/p/ft			☐ Air Percussion	
□ New □ Used	Yield:	GPM	Other (specify)	Diameter: in.
POTAL DEPTH OF WELL	29:100	FEET	TOWN WELL IS LOCATE	
		WELL		ation on reverse side of sheet)
		i		
Depth From Ground Surface	pan, shale, lime dium, coarse) c	estone, grani color of mate	te, etc. Include size of gravel	, silt, sand, gravel, clay, hard- (diameter) and sand (fine, me- , cemented, hard). For exam- , gray granite.
0 ft. to 21'0	et. Blue Cl	ey Shee	y Stone	
21'0 ft. to 26'3		·	•	
21' 3 ft. to 29'10"	et. Sharp d	Home .	Some Gravel & Silt	
ft. to	ft.			
ft, to	ft.			
		If yield v	YIELD TEST DATA IN G.P.I vas tested at different depth List Below	
	ft. //o	Water	G.P.M.	
	ft.		G.P.M.	
	ft.		G.P.M.	
Has sample of well water bee	n analyzed? 🖊	0-		
Where was sample analyzed? Include analysis of sample is	analyzed by other	r than Depar	tment of Water Resources.)	•
	Nov 1, 186	7	Date of Report Dic 21,	966
Water Well Driller's License	No. 32		Well Driller	Land -
One oth	or hole drill	led in a	res with some m	egatie resultu

TAPET T	COMPL	EMMONT	REPORT
WHILE	COMPL	ALTERNA	REPUBL

(This report must be complet the Department of Water Re Building, Montpelier, Vermont 30 days after completion of we	esources, State Office t 05602, no later than		Do not fill in State Well No. 445 25 07" Other No. 445 25 02 48"
WELL OWNER Benjam		4):11.	inter 11ti
	uley Ins	Suci High	Address out to
PROPOSED USE OR USES (C	me heck):	Mailing	Address
Domestic □ Agri	icultural Business Establish		al Industrial
Other (Specify use)			
CASTING DETAILS (Inside)	YIELD TEST	WATER LEVEL (From land surface) (if possible)	SCREEN DETAILS
Length: 19 / Feet	Bailed Hours	Static: /O Feet	Make:
Diameter: 6 Inches	Pumped GPM	During Yield Test: Feet	
A 1	Compressed Air	DRILLING EQUIPMENT Cable Tool	Material: Slot
Kind: Meel		Rotary	Size Length: Ft.
Weight: 19:45 lbs/p/ft		☐ Air Percussion	
New Used	Yield: /2_ GPM	☐ Other (specify)	Diameter: in.
TOTAL DEPTH OF WELL	395 FEET		
		·	ation on reverse side of sheet)
		. LOG	
Depth From Ground Surface		ite, etc. Include size of gravel	, silt, sand, gravel, clay, hard- (diameter) and sand (fine, me- , cemented, hard). For exam- t, gray granite.
0 ft. to 180 ft	1. Sand. e	lay - Lardn	an-Boulders
180 ft. to 395 f	1. Nertical	All - green	
ft. to f	t.		
ft. to f	t.		
ft. to f	t.		
	If yield	YIELD TEST DATA IN G.P.I was tested at different depth List Below	
<u>f</u>	t	G.P.M.	
f	t	G.P.M.	
f	t.	G.P.M.	· · · · · · · · · · · · · · · · · · ·
Has sample of well water been	analyzed?		
Where was sample analyzed? (Include analysis of sample if	analyzed by other than Depar	rtment of Water Resources.)	
Date Well was Completed 3	-1-67	Date of Report 5-2-	67
Water Well Driller's License 1	Vo. 18	Well Driller	Surfey of Sono Ive
			119 Decley

WELL NUMBER

38 (For Driller's Use)

State of Vermont

DEPARTMENT OF WATER RESOURCE! WELL COMPLETION REPORT

<u>.</u> .	
WR 86 USCE WSW 76	
Field Tea UV	
Field Loc Wap Des 13C-6	
La.44"27'20"Alt 510 TS Lo.73°63'16" 1 HU 020 000 3 Scale:62500 ,25000 ,24000	
$^{\text{Da}}$, $^{\text{J}}$ $^{$	
10 720/24/4	J
20 · 13°03 /6" \ [HU 0.201 0.00]	
Sector 62500-1-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0-	<u> </u>
Progressor 1.25000 2/000	71
	7.

(This report must be completed and
submitted to the Department of Water
Resources, State Office Building,
Montpelier, Vermont 05602, no later
than 60 days after completion of well.
Complete or line out all blanks.)

DO	NOT	FILL	IN	
_	460			

Montpelier, Vermont 05602, no later than 60 days after completion of well Complete or line out all blanks.)	AUG 2 0 1976	
WELL Mike Mike	urray RFD Will	uston, Ut. Mailing Address
TOWN IN WHICH WELL IS I		(Please locate well on a large scale map to accompany this
DATE WELL WAS COMPLETE		report. Maps are available on request.)
PROPOSED USE OF WELL: DRILLING EQUIPMENT:		☐ Business Establishment Other (Specify) • Percussion
	Other (Specify)	
	57 ft. Diameter 6 in. Material 9.45 lb./ft.	Steel
	Material	
Diameter	in. Slot Size NG TO SCREEN OR BEDROCK: Butler	Laskin Well Sec
FINAL YIELD TEST: Bai	iled, or Pumped, or Compressed Air Hours at gallons per minute el during yield test	
WELL LOG		
	Give description of formations penetrolay, hardpan, shale, limestone, granite and sand (fine, medium, coarse, color cemented, hard). For example: Surface	ated, such as: peat, silt, sand, grave, etc. Include size of gravel (diamet
Depth From Ground Surface	Give description of formations penetrolay, hardpan, shale, limestone, granite and sand (fine, medium, coarse, color cemented, hard). For example: Surfacto 134 ft. gray granite.	ated, such as: peat, silt, sand, grave, etc. Include size of gravel (diamet of material, structure (loose, pack ce to 27 ft. fine, packed, yellow san
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Form WR-59 Rev. 7-22

(For Driller's Use)

5M 6-76

State of Vermont DEPARTMENT OF WATER RESOURCES

Montpeller, Vermont 05602, no later than 60 days after completion of well. Complete or line out all blanks.)	WELL COMPLETION REPORT OCT 1 0 1979	do not fill in /3 Z
WELL Moskell H	unt William ut	
· ·	Name	Mailing Address se locate well on a large
TOWN IN WHICH WELL IS LO		map to accompany this
DATE WELL WAS COMPLETED	D: 8/ 9/29 repor	t. Maps are available on (uest.)
PROPOSED USE OF WELL:	Domestic Agricultural B	isiness Establishment er (Specify)
DRILLING EQUIPMENT:	☐ Cable Tool ☐ Rotary 12 Air Pe	rcussion
TOTAL DEPTH OF WELL: 3	STATIC WATER	40 FT
CASING DETAILS: Length	o ft. Diameter 6 in. Material	5 tool
Weight	20 lb./ft.	
SCREEN DETAILS: Make	in. Slot Size TO SCREEN OR BEDROCK: Ducche	Length
17 402 30.05	during juid took	
WELL LOG Depth From Ground Surface	Give description of formations penetrated clay, hardpan, shale, limestone, granite, etc and sand (fine, medium, coarse, color of cemented, hard). For example: Surface to	, such as: peat, silt, sand, grave : Include size of gravel (diamete naterial, structure (loose, packe
WELL LOG Depth From Ground Surface	Give description of formations penetrated clay, hardpan, shale, limestone, granite, etc.	, such as: peat, silt, sand, grave : Include size of gravel (diamete naterial, structure (loose, packe
WELL LOG Depth From Ground Surface Surface to 50 ft. Cloy	Give description of formations penetrated clay, hardpan, shale, limestone, granite, etc and sand (fine, medium, coarse, color of remented, hard). For example: Surface to 27 ft. to 134 ft. gray granite.	, such as: peat, silt, sand, grave: Include size of gravel (diamete
WELL LOG Depth From Ground Surface Surface to 50 ft. Cloy	Give description of formations penetrated clay, hardpan, shale, limestone, granite, etc and sand (fine, medium, coarse, color of cemented, hard). For example: Surface to	, such as: peat, silt, sand, grav : Include size of gravel (diamete naterial, structure (loose, packe
WELL LOG Depth From Ground Surface Surface to 50 ft. Cloy SU to 350 ft.	Give description of formations penetrated clay, hardpan, shale, limestone, granite, etc and sand (fine, medium, coarse, color of remented, hard). For example: Surface to 27 ft. to 134 ft. gray granite. State Colgo. YIELD TE If yield was tested at comparison.	, such as: peat, silt, sand, grave: Include size of gravel (diamete naterial, structure (loose, packed 27 ft. fine, packed, yellow sand sand sand sand sand sand sand sand
WELL LOG Depth From Ground Surface Surface to 50 ft. Cloy SU to 350 ft. to ft. to ft.	Give description of formations penetrated clay, hardpan, shale, limestone, granite, etc and sand (fine, medium, coarse, color of remented, hard). For example: Surface to 27 ft. to 134 ft. gray granite. State Colgo. YIELD TE If yield was tested at comparison.	, such as: peat, silt, sand, grave: Include size of gravel (diamete naterial, structure (loose, packed 27 ft. fine, packed, yellow sand sand sand sand sand sand sand sand
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WELL LOG Depth From Ground Surface Surface to 50 ft. Cloy SU to 350 ft. to ft. to ft. JOG.P.M. @ 350 G.P.M. @ WATER ANALYSIS: Has water 1	Give description of formations penetrated clay, hardpan, shale, limestone, granite, etc and sand (fine, medium, coarse, color of remented, hard). For example: Surface to 27 ft. to 134 ft. gray granite. State Colge. YIELD TE If yield was tested at continue of the gray granite of the gray granite. G.P.M. @ the gray granite of the gray granite of the gray granite of the gray granite.	such as: peat, silt, sand, grave: Include size of gravel (diameternaterial, structure (loose, packed) 27 ft. fine, packed, yellow sand the same of the structure of the same o
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2151

This report must be completed and submitted to the Department of Water Resources and Environmental Engineering, State Office Building, Mantpelier, Vermant 05602, no toter

State of Vermont

DEPARTMENT OF WATER RESOURCES AND ENVIRONMENTAL ENGINEERING

WELL COMPLETION REPORT

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Field Locati	on [] Mo	ıp are	13C5
Latitude	_		" E lev
Longitude	۰		Торо
Scale: 62,5	00 🗆,2	5,00	Topo O □, 24,000 □

Location mode attached to WCR	the Contraction
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WELL PURCHASER DOCATION OF WELL: TOWN SUBDIVISION LOT NO.	
LOCATION OF WELL: TOWN DATE WELL WAS COMPLETED PROPOSED USE OF WELL: Gromestic, Diese REASON FOR DRILLING WELL: New Supply, Wheplace Existing Supply, Despen Existing Well, Tast or Exploration, Provice Additional Supply, Other DRILLING EQUIPMENT: Cable Tool, Retary with A-P, Other TYPE OF WELL: Repen Note in Badrock, Open End Casing, Screened or States; Other TOTAL DEPTH OF WELL: Repen Note in Badrock, Open End Casing, Screened or States; Other TOTAL DEPTH OF WELL: Repen Note in Badrock, Open End Casing, Screened or States; Other TOTAL DEPTH OF WELL: Repen Note in Badrock, Open End Casing, Screened or States; Other CASING DETAILS; Toroclasque Self, Screened or States; Other CASING OETAILS; Toroclasque Self, Screened or States, Open Self, Screened or States, Open Self, Screened Sel	
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REASON FOR DRILLING WELL: New Supply, Displace Existing Supply, Deepen Existing Well, Text or Exploration, Provide Additional Supply, Disher	1981
Provide Additional Supply Other	.√σ/
DRILLING EQUIPMENT: Cable Tool, Grory sith A-P, Other	
TYPE OF WELL:	
TOTAL DEPTH OF WELL:	
CASING FINISH: Babove ground, Finished, Above ground, Untinished, Burled, In Pit, Removed, None uses, Other O. CASING DETAILS: total length 20 ft. Length betow L.S. 18 ft Dia. G in. Material Weight ib./ft. LINER OR INNER CASING DETAILS: Length used ft. Otomater in. Material Weight ib./ft. METHOD OF SEALING CASING TO BEDROCK: Ordere shoe, Grout - type ,Orilled in. hair ft. in Bedrack Other ,Orilled in. hair ft. in. Material in. Material in. hair ft. in. Material in. hair ft. in. Material in. hair ft. in. Bedrack Other ,Orilled in. hair ft. in. Material in. hair ft. in. Grovet Details. SCREEN DETAILS: Make and Type for screen in feet below land surface ft., Grovet pack if used: Grovet Size or Type ft., Grovet pack if used: Grovet Size or Type ft., Grovet pack if used: Grovet Size or Type for the screen ft., Grovet pack if used: Grovet Size or Type for the screen ft., Grovet pack if used: Grovet Size or Type for the screen ft., Grovet pack if used: Grovet Size or Type for the screen ft., Grovet pack if used: Grovet Size or Type for Type for the screen ft., Grovet pack if used: Grovet Size or Type for Type for Type ft., Grovet pack if used: Grovet Size or Type for Type for Type ft., Grovet pack if used: Grovet Size or Type ft., Grovet pack if used: Grovet Size or Type ft., Grovet pack if used: Grovet Size or Type ft., Grovet pack if used: Grovet Size or Type ft., Grovet pack if used: Grovet Size or Type ft., Grovet pack if used: Grovet Size or Type ft., Grovet pack if used: Grovet Size or Type ft., Grovet pack if used: Grovet Size or Type ft., Grovet pack if used: Grovet Size or Type ft., Grovet pack if used: Grovet Size or Type ft., Grovet pack if used: Grovet Size or Type ft., Grovet pack if used: Grovet Size or Type ft., Grovet pack if used: Grovet Size or Type ft., Grovet pack if used: Grovet Size or Type ft., Grovet pack if used: Grovet Size or Type ft., Grovet pack if used: G	-
O. CASING DETAILS: total length	
O. CASING DETAILS: total length	
1. LINER OR INNER CASING DETAILS: Length used	
2. METHOD OF SEALING CASING TO BEDROCK: Derive shoe, Grout - type, Orilledin, hate	•
Other	
Stot Size	
Stot Size	maler
14. YIELD TEST. Boiled. Pumped. Compressed Air, for Nours of Cup Cellons-per minute	
Mecaured by Bucket, Oriface pipe, Meter Pet	
Depth from Land Surface Water Formation Description Sheet Feet Feet Bearing Formation Description Statch Indicate local street name and subdivision for Surface 9 Water Formation Description Statch Indicate local street name and subdivision for Surface 9 Water Formation Description Statch Indicate local street name and subdivision for Surface 9 Water Formation Description Statch Indicate local street name and subdivision for Surface 9 Water Formation Description Statch Indicate local street name and subdivision for Surface 9 Water Formation Description Statch Indicate local street name and subdivision for Surface 9 Water Formation Description Statch Indicate local street name and subdivision for Surface 9 Water Formation Description Statch Indicate local street name and subdivision for Surface 9 Water Formation Description Statch Indicate local street name and subdivision for 9 Water Formation Description Statch Indicate local street name and subdivision for 9 Water Formation Description Statch Indicate local street name and subdivision for 9 Water Formation Description Statch Indicate local street name and subdivision for 9 Water Formation Description Statch Indicate local street name and subdivision for 9 Water Formation Description Statch Indicate local street name and subdivision for 9 Water Formation Description Statch Indicate local street name and subdivision for 9 Water Formation Description Statch Indicate local street name and subdivision for 9 Water Formation Description Statch Indicate local street name and subdivision for 9 Water Formation Description Statch Indicate local street name and subdivision for 9 Water Formation Description Statch Indicate local street name and subdivision for 9 Water Formation Description Statch Indicate local street name and subdivision for 9 Water Formation Description Statch Indicate local street name and subdivision for 9 Water Formation Description Statch Indicate local street name and subdivision for 9 Water Formation Description Statch Indicate local street name an	
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Ground Surface 9 Llit 9 146 V Gray	umber.
9 146 / Yray	
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11.1.1	/
20. TESTED YIELD WELL DRILLED BY. 19 10 10 10 10 10 10 10 10 10 10 10 10 10	
If the yield was lested at different depths during drilling, list below	
Feel Gollans Per Minute DOING BUSINESS AS: Company or Business Name	loso.
Association of the same	losp.
REPORT FILED BY: Authorized Signature	losp.

10.00

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07-84

(For Driller's Usa) This report must be completed and submitted to the Department of Water Resources and Environmental Engineering, State Office

DEPARTMENT OF WATER RESOURCES AND ENVIRONMENTAL ENGINEERING

WELL COMPLETION REPORT

W.R. 188		U.S.G	3.S
Field Locatio	n 🗆 Mo	p are	1305
	_		"Elev
Longitude	٥	ı	"Topo
Scale: 62.50	0 0.2	5.000	O.D. 24.000 IT

Authorized Signature

DATE OF REPORT: WELL DRILLERS LIC. NO. 115

	Building, Mantpelier, Vermont 05602, na later than 60 days after completion of the well. SEP 12 1984	Location map attached to WC		Scale: 62,500 (Data in Town File	□,25,000 □, 24,000 □
	WELL OWNER C.C. Constru	ctim)			
•	Name	Bristolines.	Permanent Mail	•	Sheldon
	Nome	-({.	Permanent A	talling Address	
2.	LOCATION OF WELL: TOWN Willes	SUBDIVISION	l		LOT NO.
3.	DATE WELL WAS COMPLETED 18 2 1				
4.	PROPOSED USE OF WELL: Domestic, - other	·	·		_
5.	REASON FOR DRILLING WELL:				•
		disland Supply, O Other			_ `
6.	DRILLING EQUIPMENT: Cable Tool, Rectory	with A-P, O Other	, -		
7.	TYPE OF WELL: Open Hole in Bedrock, Copen End	l Casing, 🗍 Screened or Slotted; 🗖 Of	ther	·	
8.	(O1AC OC: 111 O: 1144-1-	feet below land surface.		• •	
9.	CASING FINISH: D Above ground, Finished, Above ground	und, Unfinished, 🔲 Burled, 🗀 in Pil, 💭	Removed, 🔲 N	Yone used, 🗋 Olher	M//S
10.	CASING DETAILS: Total length 76' 11. Length		-		
11.	LINER OR INNER CASING DETAILS: Length use	17			
12.	METHOD OF SEALING CASING TO BEDROC	K. Dorive Shoe, 🗆 Grout - type		¡Orilled in, hole	It, in Bedrock
		Other			
13.	SCREEN DETAILS: Nake and Type				
	Slot Size, Qapih to top of screen in feet below lan	deurtaceft., Grave);	packifused: Gra Land	avel Size of Type	
14,	YIELD TEST: G Balled, G Pumped C Compressed Air,	for Hours of	9ta. 50	TIONE per minute	_
		by 😿 Bucket, 🛘 Orifoce pipe, 🗆 Wier			Permanent Altline inst
15.	STATIC WATER LEVEL!				
16.	WATER ANALYSIS: Hos the woler been analyzed ? [] Ye	s W No., If Yes, Where			
17.	SPECIAL NOTES:	· · · · · · · · · · · · · · · · · · ·			
18.	WELL LOG			19. SITE MAP	re such as buildings, septic tanks, and/o ate not less than two distances to the well
	Ospth from Lond Surface Water Feet Feet Bearing Form	nation Description	Skelch	Indicate local street name	and subdivision to number.
	Ground So Ghavel] .	
	50 65 Clay		\neg	1	
			_	}	
	65 300 leanock,				
			_		
	<u>, , , , , , , , , , , , , , , , , , , </u>		_	1	•
				24, 74, 61	રેવ્યુ
] [24, 12, 6.	
		mer Pont Co by.	· 	•	
20	D. TESTED YIELD If the yield was lested at different depths during drilling, list below.	WELL DRILLED BY:			
	Feet Gallons Per Minute	DOING BUSINESS AS:	Kort	heast.	Well Drilling
		DOING BUSINESS AS.		Company or Busi	nese Nome

REPORT FILED BY:_____

				Mensured by & Bucket, W Oriface pipe,	□ Wier, □ Mater		L. Permanent
STATIC V	VATER L	EVEL		feet below land surface, Date or Time me	osured, (Overflows at	G.P #
WATER A	ANALYS	S. Hos the	water been analy	zed ? 🗆 Yes 🗘 No , If Yes, Where		•	
SPECIAL WELL L	、NOTES シレシスチュ OG	:	eport:	s well overflow	Shor	w permanent structure s	uch as buildings, septic t
Depth from Feet	Land Surface Feet	Water Bearing		Formation Description		r land marks and indicate ate local street name and	not less than two distance d subdivision for number.
Ground Surface	70	·		TATOOAN		on	Zrac lc
70	110			rick sand		<u> </u>	, , , , , , ,
110	120		<u> </u>	Arsa Gradel			
					· .		
<u> </u>	ļ						
-	-	-					
1	ı				1 1		

WELL DRILLED BY !..

DOING BUSINESS AS:.

REPORT FILED BY:

DATE OF REPORT

20. TESTED YIELD

Fest

If the yield was feeled of different depths during drilling, list below

Salions Per Minute

Spafford & Son's of Williston, Vt. Inc.
Thomas Williams
P.O. Box 101

Williston, Vt. 05495

Teli (802) 878-4705

WELL DRILLERS LIC. NO.

. 3

293B

This report must be completed and submitted to the Department of Wafer Resources and Environmental Engineering, State Office Building, Montpelier, Vermont 05602, no later

DEPARTMENT OF WATER RESOURCES AND ENVIRONMENTAL ENGINEERING

WELL COMPLETION REPORT

W.K <u>35.95</u>		. U.S.G	i.Ş
Field Location	n 🗆 Ma	ap are	a <u> 1305</u>
			" Elev
Scale: 62,50	0 🗆,2	5,000	" Topo D □, 24,000 □

SEP 1 6 1985 than 60 days after completion of the well, WELL OWNER OR WELL PURCHASER. Permanent Molling Address LOCATION OF WELL: TOWN 2/12 SUBDIVISION LOT NO. DATE WELL WAS COMPLETED 7 Dune 85 3. PROPOSED USE OF WELL: B comestic, - Other 4. REASON FOR DRILLING WELL: O New Supply, & Replace Existing Supply, O Despen Existing Walt, O Test or Exploration, 5. Provide Additional Supply, [] Other. DRILLING EQUIPMENT: Cobie tool, BROTARY with A-P. CO Other_ 6. TYPE OF WELL: 19 Open Hole in Bedrock, (1) Open End Caelng, (1) Screened or Slotted; (1) Other _ 7. TOTAL DEPTH OF WELL: 8. 9. CASING FINISH: St Above ground, Finished, Above ground, Unfinished, Surfed, In Pit, Removed, None used, Other, CASING DETAILS: Total langth 34 tt. Langth below L.S. 33 10. LINER OR INNER CASING DETAILS: Length used It. Digmeter ____ 11, METHOD OF SEALING CASING TO BEDROCK! A Drive Shoe, C Grout - type . 12. 1 Olher Casing driven SCREEN DETAILS! Make and Type 13. _ , Depth to top of screen in feet below land surface al onck if used: Gravel Size or Type YIELD TEST: D Boiled, D Pumped, S Compressed Air, for Measured by 🔀 Sucket, 🗆 Oriface pipe, 🗅 Wier, 🗀 Meter Permanent Airline installed 15. STATIC WATER LEVEL! ... feet below land surface, Date or Time measured ... WATER ANALYSIS. Hos the water been analyzed ?

Yes
No. If Yes, Where 16. SPECIAL NOTES: _ 17, WELL LOG 18. 19. SITE MAP Show permanent structure such as buildings, septic lanks, and/or Depth from Land Surface other land marks and indicate not less than two distances to the well. Water Formation Description Sketch Indicate local street name and subdivision lot number. Bearing Feat Ground 29 Surface 502 29 20. TESTED YIELD If the yield was tested at different depths during drilling, list below Feet REPORT FILED BY:

DATE OF REPORT: 4 Pune 85 WELL DRILLERS LIC. NO. 36

	well NO. / TAG NO. 20 / 35 A	State of Vermont Dept. of Environmental Cons		E.C. 252	TMENT USE ONLYU.S.G.S
	(Fo/ Oriller's Use)	103 South Main Street (1 Waterbury, Vt. 0567			Map area 1365
	This report must be completed and submitted to the Department of Environmental Conservation	WELL COMPLETION R		Latitude	Elev
	103 South Main Street (10N), Waterbury, Vt. 05676 no later than 60 days after completion	J. WAR 23	988	Longitude	Topo. 3,25,000 □, 24,000 (
	of the well.	K Location map attached		Data in Town File	s 🗆
	WELL OWNER Bien	mun Box 541 \	intellin	VT 0549	?s
	OR Nome		· Permanent M	olfing Address	
	WELL PURCHASER		0	Mailing Address	
	LOCATION OF WELL: TOWN -	Willeston SUBDIVIS		s Moning Address	LOT NO.
2. -		20100	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
3.	DATE WELL WAS COMPLETE	· 			:
4.		Domestic, 1 Other Angelia	••	_	
5.	REASON FOR DRILLING WEL	E. 🗋 New Supply, 🗋 Replace Existing Supply, 🗖	,		
		🛱 Provide Additional Supply, 🗖 Other			-
6.	DRILLING EQUIPMENT: Con	ole Tool, 🔯 Ratary with A-P, 🗆 Other			
7.		drock, Open End Casing, O Screened or Statled;		· · · · · · · · · · · · · · · · · · ·	-
8.	TOTAL DEPTH OF WELL:	502 test below land surface			•
9.		lshed, 🗆 Above graund, Untinished, 🗔 Burled, 🗀 In P			
IO.	CASING DETAILS: Total langth -) It. Length below C.S. 220 It. Old	e in, Materia	DEW WIL	<u>/ 9</u> 16./11.
11.	LINER OR INNER CASING DETA	AILS: Length usedft. Diameter	in. Material	. Weight	1b./ft.
12.	METHOD OF SEALING CASING	TO BEDROCK Drive Shoe, G Grout - type	4	, Orilled in. hole	ft. in Bedrock
		Orner Carenia	drie in	in with	<u></u>
13.	SCREEN DETAILS' Make and Type	, Mafe			ft., Diameter
. •.				irgvet Size or Type	<u> </u>
		<i></i>	,		
14	YIELD TEST' Deciled Deumond.	Si Compressed Air. for	<u> </u>	Sallons per minute	
14,	YIELD TEST: 🗆 Bailed, 🗖 Pumped, 8	Compressed Air, for Hours at		Sallons per minute	. Permonent Airline in
14,		Mecoured by 🖸 Bucket, 🗆 Oriface pipe, C) Wier, 🖸 Merer		
15.	STATIC WATER LEVEL:	Measured by O Bucket, O Criface pipe, C) Wier, 🖸 Merer		Permonent Airline in
15. 16.	STATIC WATER LEVEL:	Measured by O Bucket, O Criface pipe, C) Wier, 🖸 Merer		
15. 16. 17.	STATIC WATER LEVEL: WATER ANALYSIS: Has the water be SPECIAL NOTES:	Measured by O Bucket, O Criface pipe, C) Wier, 🖸 Merer	, Overflows at	
15. 16.	STATIC WATER LEVEL: WATER ANALYSIS: Has the water be SPECIAL NOTES: WELL LOG	Measured by O Bucket, O Criface pipe, C) Wier, 🖸 Merer		G.P M.
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WELL NO. / TAG NO.

8-129

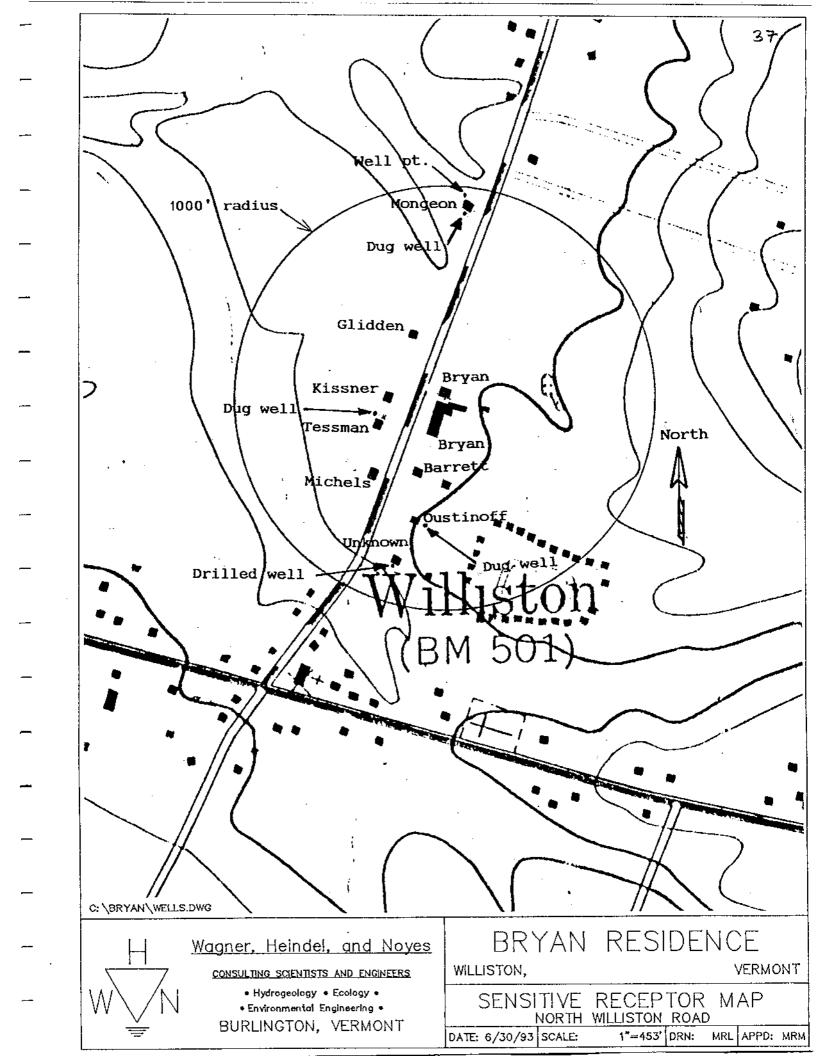
the Department of Environmental Conservation 103 South Main Street (ION), Waterbury, VI 35676 no later than 60 days ofter completion

State of Vermont Dept. of Environmental Conservation 103 South Main Street (ION) Waterbury, Vt. 05676 WELL COMPLETION REPORT

DEPARTMENT USE ONLY							
E.C. 30 U.S.G.S.							
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of the -at-____ Data in Town Files 🗆 WELL OWNER. OR Willist WELL PURCHASER _____ Permonent Molling Address LOCATION OF WELL, TOWN WILLISTON SUBDIVISION DATE WELL WAS COMPLETED ____ 7/12/90 PROPOSED USE OF WELL! Somewice, C Other ____ REASON FOR DRILLING WELL! So New Supply, [] Replace Existing Supply, [] Decom Existing Well, [] Test of Exploration, Provide Additional Supply, (1) Other DRILLING EQUIPMENT: D cobin foot, S Rotory with A-P. D Other ___ TYPE OF WELL: 🛭 Open Hole in Bedrock. 🗆 Open End Caping, 🗀 Screened or Slotted, 🗀 Other 📖 TOTAL DEPTH OF WELL: 400 CASING FINISH: St Above ground, Finished, 🗋 Above ground, Vallaished, 🗋 Burled, 🗋 In PH, 📑 Removed, 🗍 None used, 📋 Other 9. ___ /1 Length below L S _ 98 t It Dia. 6 In Material STEEL W1 17 10.711 CASING DETAILS! TOTAL LOO' 10 LINER OR INNER CASING DETAILS: Langin ward 600' 11 Diameter 4" in Moterial PVC weight 881.40 Ib./11 11 12. 13. SCREEN DETAILS! Make and Type _ _____ft , Grovel pack if used. Gravel Size or Type Stat 3-se______, Depth to top of screen in feet below land surface _ YIELD TEST Decited, Deumped, Do Compressed Air, for _____ Hours of ____ Measured by 🔯 Bucket, 🗋 Orifoce pipe, 🗆 Wier, 🗀 Weter STATIC WATER LEVEL! 15 _ feet below land surface . Date or Time measured _______ . Over Hows at ______ WATER ANALYSIS, High life water been analyzed ? [] Yes [] No. If Yes, Where _ 16 SPECIAL NOTES: WELL WAS HYDRO-FRACED AT 120' AND 200' IMPECIED FELLO FROM 1202 17 STATIC LEVEL UP FROM 200'- 50' 19, SITE MAP 18 WELL LOG Show permonent structure such as buildings, septic tanks, and/or other land marks and indicate not less than the distances to the sett Depth from Land Surface Water indicate focal street name and subdivision for number Formation Description Fee1 Feet Bearing LIGHT BEN SANOT SUZL Surface 78' IGHT GREY CLAY SMALL GRAVES 600 78' IGHT GEET SOFT SHALL OAK HELL RO إختانانيق X WELL WELL DRILLED BY: MARK KOENIG 20 TESTED YIELD Gallons Per Mi DOING BUSINESS AS: 7KOST 260' 21 600 REPORT FILED BY: AFIEK HYOCO DATE OF REPORT: 1/16/10 WELL DRILLERS LIC. NO. 23 2 FRAC 600'



Bryan Residence Sensitive Receptor Survey May 7-18, 1993 Homeowner Well Survey

Residence: Rick Barrett

Current Water Supply: Champlain Water District

Well Type: Dug well Total Depth: Unknown Installed to Bedrock: -

Yield: Unknown

Date installed: Prior to mid 1960s

Person/Company who installed well: Unknown

Person contacted: Beth Barrett

Additional notes: Mrs. Haines owned house before Barrett's; Original owner: One of Talcott's children; the dug well is located in the basement of the residence; the basement of the house remains fairly dry except in the Spring.

Rick Barrett second well (?):

An old concrete cistern is located behind (East of) the house, on the south side of the barn. It was formerly a windmill. An old pump is located beside the cistern. The area flows in the Spring. It now contains a lot of sediment.

Residence: Sandra and Richard Glidden

Current Water Supply: Champlain Water District

Well Type: None that are aware of.

Total Depth: N/A

Installed to Bedrock: N/A

Yield: N/A

Date installed: N/A

Person/Company who installed well: N/A

Person contacted: Sandra Glidden

Additional notes: Previous owner Frank Talcott (?); The Glidden's

moved in 1981. They have always been on town water.

Residence: Jean Kissner

Current Water Supply: Champlain Water District Well Type: May have been well, does not know.

Total Depth: ?

Installed to Bedrock: ?

Yield: ?

Date installed: ?

Person/Company who installed well: ?

Person contacted: Jean Kissner

Additional notes: JK moved in October, 1989; Previous owner was

O'Shaugnessy (maiden name Johnson, daughter of Ward Johnson)

Residence: Clifford Michels

Current Water Supply: Champlain Water District

Well Type: Dug well

Old steel point at one time.

Total Depth: Approx. 5 ft deep tile

Installed to Bedrock: -

Yield: Unknown

Date installed: Present when CM moved in (1976)

House built a little over 100 yrs ago.

Person/Company who installed well:

Person contacted: C. Michels

Additional notes: Michels' used for a few years;

Well went dry one summer.

Residence: Lawrence Mongeon

Current Water Supply: Champlain Water District

Well Type: Steel well point

Total Depth: 40 ft

Installed to Bedrock: No

Yield: Unknown

Date installed: Circa 1945

Person/Company who installed well: Previous owner: Miles, deceased

(?)

Person contacted: L. Mongeon

Additional notes: Point is in layer of sand; never went dry, located approx. 10 ft NW of NW corner of residence; conduit to

cellar still in place.

Mongeon well #2
Lawrence Mongeon indicated that the previous owners informed him that there was a second well on the property. It was located approximately 20 ft south of the middle of the residence. A depression marks its location. Apparently this well was buried when the well point was installed by Miles circa 1945.

Residence: Peter Oustinoff

Current Water Supply: Champlain Water District

Well Type: Dug well Total Depth: Unknown Installed to Bedrock: -

Yield: Unknown

Date installed: Unknown; Believes house built approx. 1953 or

1955.

Person/Company who installed well: Unknown

Person contacted: Anonymous tenant

Additional notes: Well located approx. 40 ft east of house; conduit

to house, but not turned on; concrete blocks as wellhead.

Residence: Jim Tessman

Current Water Supply: Champlain Water District

Well Type: Dug well Total Depth: 16 ft Installed to Bedrock: No

Yield: Unknown

Date installed: House built 1850-60

Person/Company who installed well: Original owner?: Thomas Lee

Person contacted: J. Tessman

Additional notes: Never went dry; held approx. 4 ft of water.

Note:

The following three wells are located on the Williston Country Club golf course:

- # (2)

Residence: Williston Country Club clubhouse

Current Water Supply: Drilled Well

Well Type: Drilled Well Total Depth: 290-300 ft

Installed to Bedrock: Yes, maybe 1/2 way.

Yield: 25-30 gpm

Date installed: Early 1960s

Person/Company who installed well: Manosh (?)

Person contacted: Jeff Murray/Larry Keith Additional notes: Also supplies a couple of private homeowners near the country club.

Map #

Residence: Irrigation well (golf course only)

Current Water Supply: Drilled Well

Well Type: Drilled Well Total Depth: 480-490 ft Installed to Bedrock: -

Yield: 25 gpm

Date installed: Circa 1988

Person/Company who installed well: Chevalier Person contacted: Jeff Murray/Larry Keith

Additional notes: Shale at 200 ft bgs; has tag number, is

registered.

1497#

Residence: Ben Murray

Current Water Supply: Drilled Well

Well Type: Drilled Well Total Depth: 295 or 300 ft Installed to Bedrock: -

Yield: 10-15 gpm

Date installed: early 1960s, year or two after Clubhouse well was

drilled.

Person/Company who installed well: Manosh (?), out of Morrisville

Person contacted: Jeff Murray

Additional notes: Ben Murray is original owner; well located on golf course; basically runs the house; may have tag number now